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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

SUBSTITUTE POWER OF ATTORNEY

Saket Chadda, of SPEEDFAM-IPEC CORPORATION, of 305 North 54th Street, Chandler, Arizona, hereby certifies that the entire right, title, and interest in the United States patent applications listed in attached APPENDIX A are in Assignee, SPEEDFAM-IPEC CORPORATION.

SPEEDFAM-IPEC CORPORATION, the Assignee of the entire right, title, and interest in and to the United States patent applications listed in attached APPENDIX A and all inventions disclosed and claimed therein, hereby appoints as its attorneys to prosecute said United States patent applications and to transact all business in the United States Patent and Trademark Office connected therewith and with the resulting patents, individually and collectively:

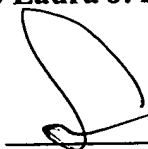
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and the registered attorneys associated with Snell & Wilmer's Customer Number 020322, hereby revoking all Powers of Attorney previously recorded for said patent applications.. Please send all future correspondence to Laura J. Zeman at the above address.

By:

 Saket Chadda

Title:

Vice President, Chief Technology Officer

Date:

9/8/01